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L4: Entry 10 of 11

File: USPT

Nov 21, 2000

US-PAT-NO: 6150407

DOCUMENT-IDENTIFIER: US 6150407 A

TITLE: Methods for inhibiting angiogenesis

DATE-ISSUED: November 21, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tuse; Daniel	Menlo Park	CA		
Hiebert; Charles	Sunnyvale	CA		
Laderoute; Keith R.	Palo Alto	CA		
Waleh; Nahid	Palo Alto	CA		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Large Scale Biology Corporation	Vacaville	CA			02
SRI International	Menlo Park	CA			02

APPL-NO: 09/ 274813 [PALM]

DATE FILED: March 22, 1999

## PARENT-CASE:

This application claims priority to U.S. patent application Ser. No. 60/079,313, filed Mar. 25, 1998, the teachings of which are incorporated herein by reference.

INT-CL: [07] A61 K 31/235, A61 K 31/24, A61 K 31/19

US-CL-ISSUED: 514/532; 514/535, 514/543, 424/450, 600/562

US-CL-CURRENT: 514/532; 424/450, 514/535, 514/543, 600/562

FIELD-OF-SEARCH: 424/450, 514/532, 514/535, 514/543, 600/562

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4994443</u>	February 1991	Folkman et al.	514/56
<input type="checkbox"/>	<u>5001116</u>	March 1991	Folkman et al.	514/56
<input type="checkbox"/>	<u>5013556</u>	May 1991	Woodle et al.	424/450
<input type="checkbox"/>	<u>5736576</u>	April 1998	Kun et al.	514/570
<input type="checkbox"/>	<u>6017958</u>	January 2000	Kun et al.	514/532

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
WO 95/29242	November 1995	WO	
WO 97/46228	December 1997	WO	
WO 99/20263	April 1999	WO	

## OTHER PUBLICATIONS

Borrows, E.T., "The synthesis of thyroxine and related substances. Part I. The preparation of tyrosine and some of its derivatives, and a new route to thyroxine", J. Chem. Soc., S185-190, (1949).

Masuda, et al., "Thyroxine related compounds", Takeda Kenkyusho Ho, 30(3):466-474 (1971).

Tripp, Spencer L., et al., "Synthesis of methylene-and carbonyl-bridged analogs of iodothyronines and iodothyroacetic acids", J. Med. Chem., 16(1):60-64 (1973).

Auerbach, et al., "A simple procedure for the long-term cultivation of chicken embryos", Dev. Biol., 41:391-394 (1974).

Taylor, et al., "Protamine is an inhibitor of angiogenesis", Nature, 297:307-312 (1982).

Folkman, et al., "Angiogenesis inhibition and tumor regression caused by heparin or a heparin fragment in the presence of cortisone", Science, 221:719-725 (1983).

Tracey, et al., "Anti-cachectin/TNF monoclonal antibodies prevent septic shock during lethal bacteraemia", Nature, 330:662-664 (1987).

Maragoudakis, et al., "Antiangiogenic action of heparin plus cortisone is associated with decreased collagenous protein synthesis in the chick chorioallantoic membrane system", J. Pharm. Exp. Ther., 251:679-682 (1989).

Silva, et al., "Prophylactic and therapeutic effects of a monoclonal antibody to tumor necrosis factor-.alpha. in experimental gram-negative shock", J. Infect. Dis., 162:421-427 (1990).

Langer, Robert, ew methods of drug delivery, Science, 249:1527-1533 (1990).

Williams, et al., "Anti-tumor necrosis factor ameliorates joint disease in murine collagen-induced arthritis", Proc. Natl. Acad. Sci. USA, 89:9784-9788 (1992).

Waleh, et al., "Selective down-regulation of integrin receptors in spheroids of squamous cell carcinoma", Cancer Res., 54:838-843 (1994).

Jain, et al., "Quantitative angiogenesis assays: progress and problems", Nat. Med., 3(11):1203-1208 (1997).

Lin, et al., "Inhibition of tumor angiogenesis using a soluble receptor establishes a role for Tie2 in pathologic vascular growth", J. Clin. Invest., 100(8):2072-2078 (1997).

Mendeleyev, Jerome, et al., "Structural specificity and tumoricidal action of methyl-3,5-diiodo-4-(4'-methoxyphenoxy) benzoate (DIME)", Int. J. Oncol., 10(4):689-695 (1997).

Kun, Ernest, et al., "Molecular pharmacology of methyl-3,5-diiodo-4 (4-3 methoxyphenoxy) benzoate (DIME) and its non-hydrolyzible ethanone analog (DIPE)\* (Review)", Int. J. Mol. Med., 2(5):585-590 (Nov. 11, 1998).

Chen, Xiaoying, et al., "Oncocidin A1: A novel tublin-binding drug with antitumor activity against human breast and ovarian carcinoma xenografts in nude mice", Biochem. Pharmacol., 56(5):623-633 (Sep. 01, 1998).

ART-UNIT: 164

PRIMARY-EXAMINER: Krass; Frederick

ATTY-AGENT-FIRM: Townsend and Townsend and Crew LLP

## ABSTRACT:

The present invention relates to methods for effectively inhibiting unwanted angiogenesis. More particularly, this invention relates to methods of treating diseases that show unwanted angiogenesis and to delivering anti-angiogenic activity

to a mammal. In other aspects this invention relates to methods of reducing the level of tumor necrosis factor .alpha..

24 Claims, 16 Drawing figures

**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 11 of 11 returned.**☐ 1. Document ID: US 6632798 B2

L4: Entry 1 of 11

File: USPT

Oct 14, 2003

US-PAT-NO: 6632798

DOCUMENT-IDENTIFIER: US 6632798 B2

TITLE: Methods for inhibiting angiogenesis

DATE-ISSUED: October 14, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hamdi, Hamdi K.	Los Angeles	CA		
Tavis, Jeffrey H.	Lomita	CA		
Castellon, Raquel	Norwalk	CA		

US-CL-CURRENT: [514/27](#); [514/460](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC
Draw Desc	Image										

☐ 2. Document ID: US 6617438 B1

L4: Entry 2 of 11

File: USPT

Sep 9, 2003

US-PAT-NO: 6617438

DOCUMENT-IDENTIFIER: US 6617438 B1

TITLE: Oligoribonucleotides with enzymatic activity

DATE-ISSUED: September 9, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beigelman, Leonid	Broomfield	CO		
Burgin, Alex B.	Chula Vista	CA		
Beaudry, Amber	Broomfield	CO		
Karpeisky, Alexander	Lafayette	CO		
Matulic-Adamic, Jasenka	Boulder	CO		
Sweedler, David	Louisville	CO		
Zinnen, Shawn	Denver	CO		

US-CL-CURRENT: [536/23.1](#); [536/24.5](#), [536/25.1](#), [536/25.3](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC
Draw Desc	Image										

☐ 3. Document ID: US 6610289 B2

L4: Entry 3 of 11

File: USPT

Aug 26, 2003

US-PAT-NO: 6610289

DOCUMENT-IDENTIFIER: US 6610289 B2

TITLE: Mutated herpes simplex virus type 1 thymidine kinases and uses thereof

DATE-ISSUED: August 26, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Drake; Richard	Little Rock	AR		
Hinds; Trenton	Bronx	NY		
Compadre; Cesar	Little Rock	AR		
Hurlburt; Barry	Little Rock	AR		
Rechlin; Tammy	Birmingham	AL		

US-CL-CURRENT: 424/93.2; 424/93.6, 435/194, 435/320.1, 435/440, 514/44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC
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☐ 4. Document ID: US 6593321 B2

L4: Entry 4 of 11

File: USPT

Jul 15, 2003

US-PAT-NO: 6593321

DOCUMENT-IDENTIFIER: US 6593321 B2

TITLE: 2-alkoxyestradiol analogs with antiproliferative and antimitotic activity

DATE-ISSUED: July 15, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rao; Pemmaraju Narasimha	San Antonio	TX		
Mooberry; Susan L.	San Antonio	TX		
Cessac; James W.	San Antonio	TX		
Tinley; Tina L.	Kerrville	TX		

US-CL-CURRENT: 514/182

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KIMC
Draw Desc	Image									

☐ 5. Document ID: US 6511676 B1

L4: Entry 5 of 11

File: USPT

Jan 28, 2003

US-PAT-NO: 6511676

DOCUMENT-IDENTIFIER: US 6511676 B1

TITLE: Therapy for human cancers using cisplatin and other drugs or genes encapsulated into liposomes

DATE-ISSUED: January 28, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boulikas; Teni	Palo Alto	CA	94306	

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 6. Document ID: US 6482932 B1

L4: Entry 6 of 11

File: USPT

Nov 19, 2002

US-PAT-NO: 6482932

DOCUMENT-IDENTIFIER: US 6482932 B1

TITLE: Nucleoside triphosphates and their incorporation into oligonucleotides

DATE-ISSUED: November 19, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beigelman; Leonid	Longmont	CO		
Burgin; Alex	Chula Vista	CA		
Beaudry; Amber	Broomfield	CO		
Karpeisky; Alexander	Lafayette	CO		
Matulic-Adamic; Jasenka	Boulder	CO		
Sweedler; David	Louisville	CO		
Zinnen; Shawn	Denver	CO		

US-CL-CURRENT: 536/23.1; 435/5, 536/23.2, 536/25.1, 536/25.34

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 7. Document ID: US 6433012 B1

L4: Entry 7 of 11

File: USPT

Aug 13, 2002

US-PAT-NO: 6433012

DOCUMENT-IDENTIFIER: US 6433012 B1

TITLE: Method for inhibiting inflammatory disease

DATE-ISSUED: August 13, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tuse; Daniel	Menlo Park	CA		
Hiebert; Charles	Sunnyvale	CA		
Laderoute; Keith R.	Palo Alto	CA		
Waleh; Nahid	Palo Alto	CA		

US-CL-CURRENT: [514/532](#); [428/450](#), [514/535](#), [514/543](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KVMC

☐ 8. Document ID: US 6245543 B1

L4: Entry 8 of 11

File: USPT

Jun 12, 2001

US-PAT-NO: 6245543

DOCUMENT-IDENTIFIER: US 6245543 B1

TITLE: Mutated herpes simplex virus type 1 thymidine kinases and uses thereof

DATE-ISSUED: June 12, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Drake; Richard	Little Rock	AR	72227	
Hinds; Trenton	Portsmouth Commonwealth of Dominica West Indies			AG
Compadre; Cesar	Little Rock	AR	72205	
Hurlburt; Barry	Little Rock	AR	72211	
Rechtin; Tammy	Birmingham	AL	35216	

US-CL-CURRENT: [435/194](#); [530/350](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KVMC

☐ 9. Document ID: US 6169104 B1

L4: Entry 9 of 11

File: USPT

Jan 2, 2001

US-PAT-NO: 6169104

DOCUMENT-IDENTIFIER: US 6169104 B1

TITLE: Di-aryl ethers and their derivatives as anti-cancer agents

DATE-ISSUED: January 2, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tuse ; Daniel	Menlo Park	CA		
Chen; Xiaoying	Newark	CA		
Hiebert; Charles K.	Sunnyvale	CA		
Olsen; Cris M.	Soquel	CA		
Laderoute; Keith	Palo Alto	CA		
Waleh; Nahid	Palo Alto	CA		
Knapp; A. Merrill	Menlo Park	CA		

US-CL-CURRENT: 514/405

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWAC

☐ 10. Document ID: US 6150407 A

L4: Entry 10 of 11

File: USPT

Nov 21, 2000

US-PAT-NO: 6150407

DOCUMENT-IDENTIFIER: US 6150407 A

TITLE: Methods for inhibiting angiogenesis

DATE-ISSUED: November 21, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tuse; Daniel	Menlo Park	CA		
Hiebert; Charles	Sunnyvale	CA		
Laderoute; Keith R.	Palo Alto	CA		
Waleh; Nahid	Palo Alto	CA		

US-CL-CURRENT: 514/532; 424/450, 514/535, 514/543, 600/562

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWAC

☐ 11. Document ID: US 6099864 A

L4: Entry 11 of 11

File: USPT

Aug 8, 2000

US-PAT-NO: 6099864

DOCUMENT-IDENTIFIER: US 6099864 A

TITLE: In situ activation of microcapsules

DATE-ISSUED: August 8, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Morrison; Dennis R.	Kemah	TX		
Mosier; Benjamin	Houston	TX		



US-CL-CURRENT: [424/489](#); [264/4.1](#), [264/4.3](#), [264/4.32](#), [264/4.33](#), [424/423](#), [424/450](#),  
[428/402.2](#), [428/402.21](#), [514/951](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
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Terms	Documents
(stealth adj1 liposome\$) and \$deoxyuridine	11

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## WEST Search History

DATE: Wednesday, October 15, 2003

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<i>DB=USPT,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
L5	(stealth adj1 liposome\$) and radiosensitize\$	1	L5
L4	(stealth adj1 liposome\$) and \$deoxyuridine	11	L4
L3	(stealth adj1 liposome\$) same radiation	0	L3
L2	(stealth adj1 liposome\$) same radiosensitize\$	0	L2
L1	(stealth adj1 liposome\$) same \$deoxyuridine	0	L1

END OF SEARCH HISTORY